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PROC. ENTOMOL, SOC. WASH. 87(4), 1985, p. 769

## Note

## Further Evidence of Nuptial Feeding in Sepedon (Diptera: Sciomyzidae)

We had already submitted our manuscript on nuptial feeding in *Sepedon* (Berg and Valley, 1985, Proc. Entomol. Soc. Wash. 87, pp. 622–633) when R. E. Orth alerted us to a relevant paper that we had overlooked. It is: Barraclough, D. A., 1983. The biology and immature stages of some *Sepedon* snail-killing flies in Natal (Diptera: Sciomyzidae). Ann. Natal Mus. 25: 293–317.

That author reported (p. 312) that the copulating male of Sepedon neavei Steyskal "... extends his proboscis downwards, between the bases of the female's antennae, and makes contact with the female's partially extended proboscis. The male's labellum everts and preens the female's labellum—the male possibly passing regurgitated food to the female." His illustrations include a figure of this labellar contact during copulation.

If Barraclough's interpretations are correct, three conclusions pertinent to points raised in our paper are inescapable.

- (1) Males of *S. neavei* must be included among those that expel nuptial food orally.
- (2) Means of transmission of nuptial food are even more varied than we indicated; they include direct oral contact and may include regurgitation. We cannot assume that nuptial food was secreted by the salivary glands simply because it is transmitted orally.
- (3) If this Ethiopian species practices nuptial feeding, this mating system almost certainly is used by some species of the *Sepedon* group in all zoogeographic regions. The species mentioned in our previous paper occupy parts of all zoogeographic regions except the Ethiopian. The ranges of the four "Asiatic" species discussed there are primarily Oriental, not Palearctic, as we indicated. However, *Sepedon aenescens* Wiedemann extends northward well into the Palearctic Region, and *S. plumbella* Wiedemann occurs throughout most of both the Oriental and the Australian Regions. The widespread occurrence of nuptial feeding in *Sepedon* and related genera may suggest that it evolved in primitive ancestral stock, and was then carried along by several species that descended from that stock when they dispersed to occupy their present ranges.

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